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Catalysts containing passivated copper and zinc oxide and/or alumina are prepared by

- (1) precipitating a mixture of catalyst precursor components dissolved or suspended in a diluent with anion-containing precipitating agents, washing and drying to form a solid catalyst precursor in the form of powder or granules,
- (2) calcining the solid catalyst precursor obtained in stage (1) to an anion content from the precipitating agent of from 0.1 to 2.5% by weight and
- (3) shaping and, if required, reducing and passivating the calcined catalyst precursor from stage (2) in any desired order to form the catalyst.

Figure 1 consists of 12 diagrams arranged in two rows of six. The top row shows the initial state of a 2D lattice structure at $t=0$. The bottom row shows the state after one time step at $t=1$. The diagrams illustrate the evolution of the lattice structure, showing how the central square expands and the surrounding lattice is modified. The diagrams are labeled with $t=0$ and $t=1$.